

**REMARKS**

Upon entry of the instant amendment, claims 1-9 are pending. Claim 1 has been amended. It is respectfully submitted that upon entry of the amendment and consideration of the remarks below that the application is in condition for allowance.

**CLAIM REJECTIONS – 35 U.S.C. § 102**

Claims 1, 2 and 4-7 have been rejected under 35 USC § 102(b) as being anticipated by Nagai US Patent No. 5,216,371 ("the Nagai patent"). In order for there to be anticipation, each and every one of the elements of the claim. It is respectfully submitted that the claims recite subject matter not disclosed or suggested by the Nagai patent. For example, the claims recite that the charge indication signal is based solely on the charging current to the battery. The first charge indication signal, as recited in the claims is independent of time and independent of the charge of the battery. The measuring circuit 30 disclosed in the Nagai patent, being relied upon by the Examiner, teaches away from the sensing circuit recited in the claims at issue. Specifically, the Nagai patent teaches a measuring circuit 30 that includes an integrator 32 for integrating the charging current with respect to time to generate a signal based upon the charge not current of the battery. As is well known in the art and also discussed in the Nagai patent, charge is the time integration of charging current. The circuit in the Nagai patent generates the charge signal by integrating the current over time. ("...a measuring circuit which comprises a current detecting circuit 30 for detecting the value of recharge current or discharge current, an amplifier 31 for the amplification of the output signal of the current-detecting circuit 30, an arithmetic circuit 32 for integrating the value of current every unit time, etc., a timer 33 for generating a signal for defining the unit time for the *integrating* operation, and a random-access memory (RAM) 34 for holding integrated data, etc." Nagai patent, Col. 4, lines 53-60). It is the "charge signal" that is displayed in the Nagai patent.

As such, it is respectfully submitted that the Nagai patent does not anticipate or suggest the circuit recited in the claims. The Examiner is thus respectfully requested to reconsider and withdraw the rejection of these claims.

**CLAIM REJECTIONS – 35 U.S.C. § 103**

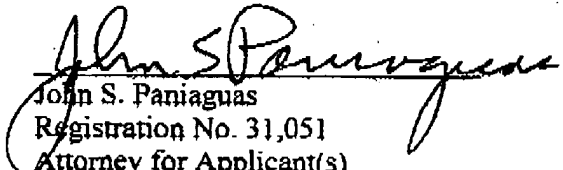
Claims 1, 2 and 4-7 have been alternatively rejected under rejected under 35 U.S.C. § 103(a) as being unpatentable over Ng US Patent Application Publication No. US 2005/0089750 A1 ("the Ng publication"). It is respectfully submitted that the claims, as amended, recite subject matter not disclosed or suggested by the Ng publication. In particular, the Ng publication relates to a temperature control apparatus for lithium batteries. It does not otherwise disclose a measuring circuit. As such, the Ng publication clearly does not support a rejection under 35 USC § 103 of Claims 1, 2 and 4-7 by itself. Alternatively even combining the Ng publication with the Nagai patent, neither reference discloses or suggests a battery indication circuit for providing an indication of the charge of a battery based solely on the magnitude of charging current at any point in time during a charging cycle independent of the time and actual charge, i.e. time that the charging current was applied to the battery, as discussed above. For these reasons and for the above reasons, the Examiner is respectfully requested to reconsider and withdraw this rejection.

Claims 3, 8 and 9 were also rejected under 35 U.S.C. § 103(a) as being unpatentable over the the Nagai patent further in view of Matsunaga et al US Patent No. 5,216,371 ("the Matsunaga et al patent"). The Nagai patent was discussed above. The Matsunaga et al patent was cited for disclosing various LEDs. It does not otherwise disclose a measuring circuit as recited in the claims at issue. For these reasons and the above reasons, the Examiner is respectfully requested to reconsider and withdraw this rejection.

Respectfully submitted,

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